

PATENT ABSTRACTS OF JAPAN

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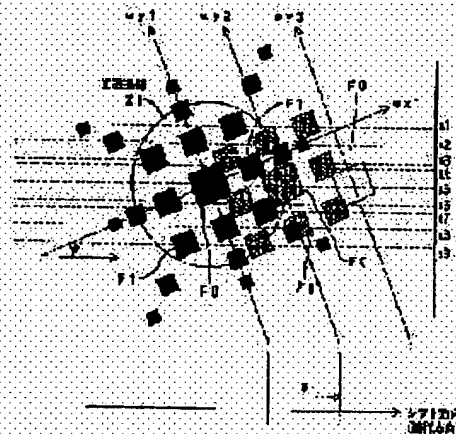
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(54) OPTICAL RECORDING METHOD AND OPTICAL RECORDING DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To make it possible to lessen the deterioration in data by a shift multiplex recording and to improve the recording density.

SOLUTION: The ωx -axis of a Fourier transform image is inclined at a prescribed angle θ to a shift direction on an optical recording medium. The light shielding body forming a light transparent part 21 is arranged in front of the optical recording medium and nine pieces of components consisting of the zero order light F_0 and first order light F_1 of the Fourier transform image are recorded through the light transparent part 21 on the optical recording medium. The Fourier transform image painted out with black in the light transparent part 21 is the first recording data, the Fourier transform image thinly painted out with gray is the next data and the Fourier transform image indicating only the first order light F_0 with a solid line without being painted out is the recording data next to the above data. The angle θ is set at an angle at which the smallest distance among the



distances between the adjacent two orthographic points is maximized without the superposition of the orthographic points a_1 to a_9 with respect to the shift direction at the center of nine pieces of the components recorded within a range of $0^\circ < \theta < 45^\circ$. As a result, the overlap of the components of the adjacent Fourier transform images in the case of the shift multiplex recording is lessened.

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